IN THE CLAIMS

1. (currently amended) A method for managing a transportation system by a transportation business entity, said method comprising the steps of:

collecting at least one set of transportation data from at least one sub-system;

comparing the at least one set of collected transportation data set to at least one standard transportation data;

generating at least one problem area data set based upon the comparison of the collected and standard data; and

recommending business activities relating to managing the transportation business entity based on at least one of the generated problem area data set and the comparison of the collected and standard data wherein recommending business activities relating to managing the transportation business entity includes at least one of altering an asset allocation priority, generating a maintenance action, altering a state of a transportation system environmental system, determining at least one location of emergency equipment, recommending at least one location for a repair facility, determining an emergency equipment inventory, and determining an inventory for each repair facility.

- 2. (original) A method in accordance with Claim 1 wherein the at least one sub-system includes at least one of a wayside sub-system, a locomotive sub-system, a railcar sub-system, a yard sub-system, a schedule sub-system, a monitoring and diagnostic sub-system and a management making sub-system.
- 3. (original) A method in accordance with Claim 1 wherein collecting at least one set of transportation data from at least one sub-system comprises the step of collecting real-time data from at least one sub-system.
- 4. (original) A method in accordance with Claim 3 wherein the transportation system includes at least one vehicle, said method further comprising the step of altering a performance of the vehicle based upon the problem area data set.



- 5. (original) A method in accordance with Claim 4 wherein said step of altering the performance of the vehicle based upon the problem area data set comprises the step of continuously altering the performance of the vehicle based upon the real-time data.
- 6. (original) A method in accordance with Claim 1 further comprising the step of identifying at least one source of delay.
- 7. (original) A method in accordance with Claim 6 wherein said step of identifying at least one source of delay comprises the step of identifying a defined quantity of largest source of delays.
- 8. (currently amended) A method in accordance with Claim-1-wherein Claim 7 wherein said step of identifying a defined quantity of largest source of delays comprises the step of a user selecting a number of largest source of delays.
- 9. (currently amended) A method in accordance with Claim 1 further comprising the steps of determining a predicted a vehicle a transportation system delay based upon the problem area data.

10. (canceled)

11. (currently amended) A management system for managing a transportation system by a transportation business entity, said system comprising:

at least one sub-system for collecting at least one set of transportation data;

a sub-system for analyzing the at least one set of collected transportation data set for at least one of failure modes and effects, anticipated failure probabilities, and failure corrective actions;

a sub-system for comparing the at least one set of collected transportation data set to at least one standard transportation data;

a sub-system for generating at least one problem area data set based upon the comparison of the collected and standard data; and

a management and decision making sub-system that is configured to recommend business activities relating to managing the transportation business entity based



on at least one of the generated problem area data set and the comparison of the collected and standard data.

- 12. (original) A management system in accordance with Claim 11 wherein said at least one sub-system includes at least one of a wayside sub-system, a locomotive sub-system, a railcar sub-system, a yard sub-system, a schedule sub-system, a monitoring and diagnostic sub-system and a management or decision making sub-system.
- 13. (original) A management system in accordance with Claim 11 wherein said at least one sub-system for collecting at least one set of transportation data is configured to collect real-time data from said at least one sub-system.
- 14. (original) A management system in accordance with Claim 13, wherein the transportation system includes at least one vehicle, said management system configured to alter a performance of at least one vehicle based upon the problem area data set.
- 15. (original) A management system in accordance with Claim 14 wherein at least one sub-system is configured of continuously altering the performance of the vehicle based upon the real-time data.
- 16. (original) A management system in accordance with Claim 11 wherein said at least one sub-system is configured to identify at least one source of delay.
- 17. (original) A management system in accordance with Claim 16 wherein said at least one sub-system is further configured to identify a pre-defined quantity of largest source of delays.
- 18. (currently amended) A system comprising a plurality of sub-systems and a transportation business entity central data center, said system configured to:

collect at least one set of transportation data from at least one sub-system;

compare said collected transportation data set to at least one standard transportation data; and

generate at least one problem area data set based upon the comparison of the collected and standard data without human intervention;



prioritize top transportation system problem areas wherein said priority is based upon a delay magnitude; and

recommend business activities relating to managing the transportation business entity based on the prioritized transportation system problem areas wherein recommending business activities relating to managing the transportation business entity includes at least one of altering an asset allocation priority, generating a maintenance action, altering a state of a transportation system environmental system, determining at least one location to place emergency equipment, recommending at least one repair facility location, determining an emergency equipment component inventory, and determining a repair facility component inventory.

19. (canceled)

- 20. (currently amended) A system in accordance with Claim 18 further configured to determine a predicted locomotive-delay based upon said problem area data.
- 21. (previously presented) A method in accordance with Claim 1 wherein generating at least one problem area data set based upon the comparison of the collected and standard data comprises identifying delays for each of at least one of a selected type of delay or failure.
- 22. (currently amended) A method in accordance with Claim 21 wherein said selected type of delay comprises at least one of locomotive delays, railcar delays, maintenance delays and broken track delays.
- 23. (previously presented) A method in accordance with Claim 21 wherein recommending business activities comprises sorting the identified delays based upon a magnitude of the delay.
- 24. (previously presented) A method in accordance with Claim 1 wherein recommending business activities relating to managing the transportation business entity comprises at least one of predicting a life of a railcar and predicting a maintenance cost of the railcar over the life of the railcar.



- 25. (previously presented) A method in accordance with Claim 1 wherein generating at least one problem area data set based upon the comparison of the collected and standard data recommending comprises determining shipment damage locations.
- 26. (previously presented) A method in accordance with Claim 1 wherein recommending business activities relating to managing the transportation business entity comprises determining at least one of an insurance claim type, a quantity of insurance claims, and a risk profile of at least one of a transportation carrier, railcar car, and a route.
- 27. (previously presented) A method in accordance with Claim 1 wherein recommending business activities relating to managing the transportation business entity comprises providing real-time transportation entity management with real-time transportation system-wide problem area data sets.
- 28. (previously presented) A system in accordance with Claim 11 comprising a management and decision making sub-system configured to provide transportation entity management with real-time transportation system-wide problem area data sets.
- 29. (new) A system in accordance with Claim 20 wherein said predicted delay is generated from at least one of a transportation system component failure rate, a time required to complete a component maintenance action, and anticipated failure delay.
- 30. (new) A management system in accordance with Claim 11 wherein said management and decision making sub-system is further configured to alter the status of a non-locomotive component to in response to the generated problem area data set, wherein said non-locomotive component includes at least one of a repair vehicle, a maintenance work order, and a track capacity.